

ABSTRACT

A flaw detection apparatus for a wire rope of an elevator according to the present invention, which is intended for a wire rope having a nominal diameter of 4 mm to 8 mm, includes a plurality of unit probes 9. Each of the unit probes 9 has a first and a second magnetic poles 10a and 10b of different polarity, and a magnetic sensor 11 of a U-shape disposed between the first magnetic pole 10a and the second magnetic pole 10b. A bottom radius of the magnetic sensor 11 is in a range of 2 mm to 5mm. A difference between the bottom radius of the magnetic sensor 11 and a half of the nominal diameter of a wire rope 1 is equal to or less than 1.5 mm.